AMENDMENT & RESPONSE UNDER 37 C.F.R. § 1.116 - EXPEDITED PROCEDURE

Serial Number: 09/820,198

Filing Date: March 28, 2001

Title: METHODS TO PREPARE AND USE EPIDERMAL STEM CELLS

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- 6. (Amended) The method of claim 1 or 2 wherein the [population of] sample comprises mammalian epidermal cells [is] which have been dissociated from non-epidermal cells [prior to separation].
- 7. (Amended) The method of claim 1 or 2 wherein the <u>agent which binds DNA is a</u> [population of mammalian epidermal cells is contacted with] Hoechst dye [prior to separation].
- 9. (Amended) The method of claim 1 or 2 wherein the agent that binds non-viable cells is [population of mammalian epidermal cells is contacted with] propidium iodide [prior to separation].
- 10. (Amended) The method of claim 7 wherein the <u>agent that binds non-viable cells is</u> [cells are further contacted with] propidium iodide [prior to separation].

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- 12. (Amended) The method of claim 1 or 2 wherein the [population of mammalian epidermal cells] sample is in a medium which lacks azide.
- 13. (Amended) The method of claim 1 or 2 wherein the <u>sample</u> [population of mammalian epidermal cells] is <u>further</u> contacted with a nuclear-retained label prior to separation.
- 14. (Amended) The method of claim 1 or 2 wherein the cells in the second population [that are not epidermal stem cells] have proliferative capacity.
- 16. (Amended) A method to prepare [isolated] mammalian epidermal stem cells, comprising:
  - (a) contacting a population of mammalian epidermal cells comprising epidermal stem cells with an amount of a first agent under conditions effective for viable cells to retain the first agent;
  - (b) contacting the population of (a) with an amount of a second agent under conditions effective for non-viable cells to retain the second agent; and
  - (c) separating the population of (b) into a <u>first</u> population of [which] <u>cells which first</u> population represents the <u>smallest 30% of the cells which comprise</u> viable epidermal stem cells and [at least one] <u>a second</u> population of cells <u>which represents larger cells</u>, <u>which second population</u> [that] does not comprise <u>a substantial portion of epidermal stem cells</u>.
- 21. (Amended) The method of claim 16 wherein the <u>sample comprises</u> [population of] mammalian epidermal cells <u>which have been</u> [is] dissociated from non-epidermal cells [prior to separation].
- 22. (Amended) The method of claim 16 wherein the [population of mammalian epidermal cells of step (a) is contacted with] <u>first agent is a Hoechst dye.</u>

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- 25. (Amended) The method of claim 16 wherein the sample [population of mammalian epidermal cells] is further contacted with a nuclear-retained label prior to separation.
- (Amended) The method of claim 16 wherein the cells [that are not epidermal cells] in the 26. second population have proliferative capacity.
- 39. (Amended) A method to prepare a substantially pure population of mammalian epidermal stem cells, comprising: separating a sample comprising [a population of] mammalian epidermal stem cells and epidermal cells which are not epidermal stem cells, which sample is contacted with a Hoechst dye and propidium iodine or pyronidine iodine, [which population comprises epidermal stem cells,] into a substantially pure population of epidermal stem cells and into at least one population of cells that does not comprise a substantial portion of epidermal stem cells.
- 40. (Amended) A method to prepare mammalian epidermal stem cells, comprising: separating a sample comprising [a population of] mammalian epidermal stem cells and epidermal cells which are not epidermal stem cells, which sample is contacted with a Hoechst dye and propidium iodine or pyronidine iodine, [which population comprises epidermal stem cells,] into a population which represents the smallest 30% of the cells in the sample and into a population which comprises larger cells, wherein the population with the smallest 30% of the cells comprises a substantially pure population of epidermal stem cells.

## Remarks

Reconsideration and withdrawal of the rejection of the claims, in view of the remarks and amendments herein, is respectfully requested. Claims 1-2, 6-7, 9-10, 12-14, 16, 21-22, 25-26, and 39-40 are amended. Claims 1-40 are pending. The amendments to the claims are intended to further prosecution and are not intended to concede to the correctness of the Examiner's